EXHIBIT 11

DRAFT

RECEIVED

JAN 3 0 2007

SUPERFURD DIVISION

HISTORIC RAILROADS ST. FRANCOIS COUNTY MINED AREAS

St. Francois County, Missouri

January 29, 2007

Prepared by:



730 17th Street, Suite 925 Denver, Colorado 80202



SEMO-006895 ASARCOSEMO00026914

DRAFT

January 29, 2007

TABLE OF CONTENTS

1.0	INTRODUCTION		
	1.1 Physical Setting		
	1.2 Railroad History		
	1.3 Railroad Construction		
2.0	SUMMARY OF INVESTIGATION		
	2.1 Historic Railroad Mapping		
	2.2 Vegetation and Soil Development		
	2.3 Cross Sections of Ballast		
	2.4 Ballast Volume Estimation		
	2.5 Ballast Sampling		
3.0	SUMMARY1		
4.0	REFERENCES1		
	LIST OF TABLES		
1	Transect Cross-Sectional Areas		
2	Verified Railroad Segment Volumes		
3	Cadmium, Lead, and Zinc Concentrations in Ballast Sample Composites		
	LIST OF FIGURES		
1	Vicinity Map		
2	Location of Cross-Sections and Ballast Samples		
	LIST OF APPENDICES		
Α	Historic Railroad Maps		
В	Field Sampling Forms and Photographs		
С	Laboratory Data		
D	Lead Belt News 1924 and 1938		

This report summarizes and reports the assessment of the nature and extent of mine-related materials associated with historic railroad beds in St. Francois County located in southeastern Missouri, pursuant to the Field Sampling Plan for Historical Railroads (NewFields 2006b). This report has been prepared by NewFields on behalf of The Doe Run Company and is being conducted as Additional Work pursuant to Administrative Order on Consent (AOC), U.S. Environmental Protection Agency Docket No. VII-97-F-0002, dated January 29, 1997. This report on historic railroads of St. Francois County, Missouri is submitted as an Addendum to the Focused Remedial Investigation Report dated March 2006 (NewFields 2006a).

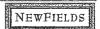
1.0 INTRODUCTION

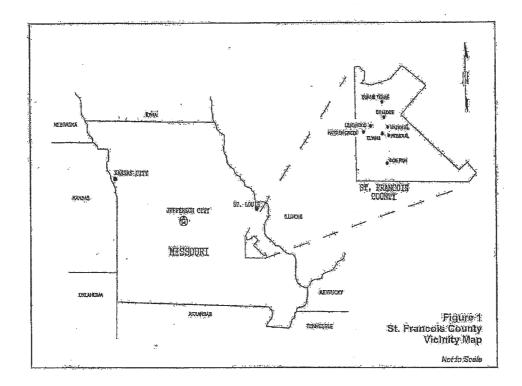
1.1 Physical Setting

The Site is located in southeastern Missouri entirely within St. Francois County, approximately 70 miles south of St. Louis. The topography is hilly with several hundred feet of relief with altitudes ranging from about 700 to 1,000 feet above mean sea level (msl). The climate in St. Francois County is continental with cold winters and hot summers. Annual precipitation is approximately 40 inches with a rainy season in fall and winter. Average annual snowfall is 13.7 inches. Prevailing winds are from the south (Fluor Daniel 1995).

Within the Site boundaries are the incorporated towns of Desloge, Bonne Terre, Park Hills, Leadwood, and Leadington and the unincorporated towns of Frankclay, Wortham, Gumbo, Doe Run and East Bonne Terre. The population of the Site is roughly estimated at 15,000-20,000 (Fluor Daniel 1995; confirmed with 2000 Census).

St. Francois County is located in a historic mining area called the Old Lead Belt. The Old Lead Belt is on the northeastern edge of the Precambrian igneous core of the St. Francois Mountains. This area is one of the world's largest lead mining districts, having produced more than nine million tons of pig lead (MDOH 1997). The first recorded mining in St. Francois County occurred at Mine-a-Gabore between 1742 and 1762. The important discoveries of disseminated lead in the Bonne Terre, Leadwood, and Flat River areas occurred in 1864. The introduction of the diamond drill in 1869 facilitated the discovery of additional reserves and output from the mines increased dramatically in the late 1800s. Mine output from St. Francois County peaked in 1942 when the concentrate equivalent of 197,430 tons of lead was produced. Mining ceased in the Old Lead Belt in 1972 with the closing of St. Joe Lead Company's Federal mine (Fluor Daniel 1995).





Within the Site there are eight designated mining areas (Figure 1):

- Desloge (aka Big River Mine Tailings)
- · Federal (aka St. Joe State Park)
- Leadwood
- Bonne Terre
- National Lead Site
- Elvins/Rivermines
- · Hayden Creek
- · Doe Run.

1.2 Railroad History

The first railroad constructed in St. Francois County was the St. Louis & Iron Mountain & Southern Railroad, completed in 1859 to Pilot Knob to facilitate the transportation of iron ore to St. Louis. A short summary of the more important dates in the railroad history of St. Francois County and the Old Lead Belt are listed below (Bratton and Turley 1979; Akers 1938).



- 1853-1859 St. Louis & Iron Mountain & Southern Railroad built to Pilot Knob in Iron County.
- 1869 Belmont Branch of the St. Louis & Iron Mountain Railroad completed between Bismarck and Belmont.
- 1880 St. Joe & Desloge Railroad completed from Bonne Terre to Summit in Washington County.
- 1888-1890 Mississippi River & Bonne Terre Railroad constructed from Bonne Terre through Herculaneum to Riverside.
- 1891 Mississippi River & Bonne Terré Railroad extended 18 miles to the town of Doe Run.
- 1904 St. François County Electric Railroad begins operation in Farmington.
- 1903-1905(?) Illinois Southern Railroad constructed through St. Genevieve and St. Francois County to Bismarck.
- 1912-1917 Saline Valley Railroad operated between Saline Junction and Farmington.
- 1972 Missouri-Pacific Belmont Branch, formerly owned by St. Louis & Iron Mountain & Southern Railroad, is abandoned.

Articles published in the Lead Belt News in 1924 and 1938 discussing railroads in St. Francois County are provided in Appendix D. Rail lines, both historic and active, are shown on Figure 2.

1.3 Railroad Construction

On side slopes, the railroad grade was constructed using the cut and fill method; that is, soil, rock, and clay were excavated from the uphill side and used to form the core of the alignment and as support for the downhill side of the grade. As observed in the field, the final cover consisted of 12 to 18 inches of chat. The chat provided a granular, easily handled, well-drained aggregate for bedding the wooden cross ties. Besides side slopes, relatively thin chat ballast was observed in flat "cut" sections through hills and where the grade was constructed on existing topography. Fill was used across low-lying areas, at stream crossings (e.g. HRR-3), and where it was necessary to construct ramps to crest a divide. Chat was used almost exclusively where large quantities of fill were needed to meet grade requirements.





DRAFT

January 29, 2007

Railroads built prior to the advent of dump trucks were constructed by transporting men, equipment and materials to the end of the newly constructed railhead. Ballast was brought in by rail car and dumped at the end of the new rail line. Once the surface of the ballast was brought up to grade, the ties and rails were placed. After a new rail section was set in place and spiked to the ties, more ballast was brought in and the process was repeated.

Modern railroad ballast that meets American Railway Engineering and Mining Association (AREMA) specifications contains between 45 and 80 percent plus 3/4-inch sized rock. An example, Wilson #4 1.5-inch AREMA railroad ballast has been used since the late 1800s. Like most railway ballast, it is composed of a very hard, indurated rock, 100% crushed granite. Other rock types include basalt, metamorphic rock, and hard limestone. In the historic railroad grades of St. Francois County, the chat ballast material is much smaller with a maximum grain size of about 1/2 inch in diameter. A typical chat ballast sample is characterized as a "sand and small gravel". Besides chat, traces of clinker and coal were common. Iron ore was a component of the ballast in the Illinois Southern track, as observed in the sample from HRR-9 south of St. Joe State Park. The rails from this railroad were removed relatively recently, some 20 years ago.

2.0 SUMMARY OF INVESTIGATION

In a July 17, 2006 meeting, EPA requested that The Doe Run Company conduct an investigation to characterize historic railroads in the County, with specific attention given to cadmium, lead, and zinc content in the ballast material and the volume. A field investigation was conducted on November 14-17, 2006 following approval of a Field Sampling Plan (RRFSP) dated October 16, 2006 (NewFields 2006b).

Thirteen (13) locations along the historic railroads were identified in the RRFSP to assess the cross-sectional area and sample remaining railroad ballast (Figure 2). All transect locations were on private land or within St. Joe State Park and access was obtained by The Doe Run Company prior to inspection. No clear evidence of a railroad could be found at the HRR-7 location, so the HRR-14 location was added upon obtaining access. Of the 13 transects, 12 were sampled and cross sections were measured at all 13 locations. Additionally, field volume estimates were made at three other locations (see Figure 2).

2.1 Historic Railroad Mapping

The extent of historic railroads was mapped in AutoGIS and submitted with the Focused Remedial Investigation (RI) in March 2006. Figure 2 depicts approximately 69 miles of abandon railroads. The rail locations depicted in the project GIS and on figures in this report were identified using The Doe Run Company's historic mining maps, Sanborn



DRAFT

January 29, 2007

insurance maps, 1984 (St. Joe State Park) black and white and April 1998 color aerial photography, and a 1908 topographic map (Buckley 1908). Rail lines that were ground-truthed in the field were categorized as "verified". Many sections of railways are now covered by roads or have been converted to residential and commercial areas, and the present-day existence of these old lines could not be field verified. Figure 2 and the figures in Appendix A show the unverified rail lines in light green and the verified rail lines in yellow or pink. Approximately 44 percent of the lines were verified, 160,107 linear feet or 30.3 miles. Approximately 204,191 linear feet, or 38.7 miles, are unverified and are located primarily in towns or under mill waste piles or are located away from the St. Francois County Mined Area site boundary (see Figure 2).

Some of the historic railroads within St. Joe State Park have been paved with asphalt and converted to bike/hiking trials. The volume of ballast was estimated at transect HRR-13 but samples were not collected due to the presence of the paving.

Some ballast has been completely removed as a result of post-rail line construction activities, such as in highway cuts. These areas, highlighted in pink, are noted on Figure 2 as well as in figures in Appendix A. Approximately 9,442 linear feet of ballast has been removed (length included in the verified rail lines).

2.2 Vegetation and Soil Development

The historic railroads that cross through forested areas exhibited extensive regrowth owing to the fact that they have stood undisturbed for some 100 years. Moderate to dense secondary growth of oaks, cedar, hackberry, hickory, Japanese elm, sycamore and other species of trees, brush, honeysuckle, and vines are noted on the field forms (Appendix B). Sycamore trees growing through or rooted in the ballast had trunks up to 16 inches in diameter. While dense vegetative growth was typical on the ballast slopes, dense growth on the flat, upper surface was not common. Most of the historic railways inspected serve as trails and unimproved roads, thus shrub and tree growth on the traveled surface is much thinner and less developed. In the few instances where the grades were not used for travel, there was no apparent difference between the vegetation density on and off the railway ballast.

The organic layer covering the chat ballast in forested areas is well developed owing to the almost continuous supply of litter provided by the surrounding oak/hickory forest. Thinner litter layers are associated with the short leafed pine forests in and around St. Joe State Park. Side slopes and lightly traveled portions of the railway grades typically exhibited a dark brown to black, 4- to 6-inch organic-rich layer over the chat ballast. Exposed ballast in open grassed areas typically exhibited a thinner organic layer; however, grasses and shrubs were better established in the open sunny (non-shaded) areas. Steep 40-degree slopes did not exhibit an organic layer and were only thinly covered with vines and brush.

NewFields

DRAFT

January 29, 2007

Regardless of vegetative cover, the chat ballast appeared quite stable with little evidence that it was susceptible to erosion. Where penetrated by trees and tree roots it was very stable. As part of the original construction, culverts were placed in channels and low areas to convey runoff under the railway. Erosion rills were observed on some of the steeper barren chat slopes and in areas where motorcycle or ATV use was prevalent. In general, the chat slopes appeared to be quite stable unless they are very steep or have been disturbed by man.

2.3 Cross Sections of Ballast

Cross-sections were used to assess the average thickness of the ballast in the historic railroads. A cross-section was established at each transect shown in Figure 2 by measuring the top surface of the railroad grade and measuring the horizontal distance of the crest and from toe to toe of the side slopes. The thickness of the ballast was then measured by tape or sight line and, if possible, confirmed using a shovel. At the field personnel's discretion, the ballast was either trenched or a series of exploration pits were made into the ballast. The cross-sectional areas for each transect are listed in Table 1. The character of the material was described, including, but not limited to, grain-size, color, consistency, and organic content.

Table 1 Transects and Cross-Sectional Areas

Transect	Location	Area (ft ²)	Volume per running foot (cy)
HRR-01	Leadwood	253	9.4
HRR-02	Desloge	85	3.1
HRR-03	Desloge/Owl Creek	9823	364
HRR-04	Bonne Terre	78	2.9
HRR-05	Leadwood	75	2.8
HRR-06	National	26	1
HRR-07	St. Joe State Park, rail grade not located	NA	NA
HRR-08	St. Joe State Park	10	0.4
HRR-09	Illinois Southern RR	157	5.8
HRR-10	Leadwood	110	4.1
HRR-11	Gumbo	335	12.4
HRR-12	Elvins/Rivermines	418	15.5
HRR-13	Paved St. Joe State Park bike trail	214	7.9
HRR-14	Bonne Terre	150	5.5

Volumes shown are bank cubic yards. For bulk volumes, apply a swell factor of 110%.

DRAFT

January 29, 2007

2.4 Ballast Volume Estimation

The volume of ballast was estimated by taking the cross-sectional area from Table 1 and multiplying by a measured segment length. ArcGIS calculated the segment length using the base aerial photography. Segment lengths and associated cross-sectional areas are listed in Table 2. Refer to maps provided in Appendix A for specific end points.

Table 2 Verified Railroad Segment Volumes

Segment Location		Length	Volume per running foot (cy) and reference	Segment	
From	То	(ft)	transect, if used	Volume (cy)	
Shaft DR #8	Section line	4,159	9,4 HRR-1	39,097	
Section line	HRR-11	3,076	12.4 HRR-11	38,141	
HRR-11	Old Highway 8	4,051	12.4 HRR-11	50,231	
Gumbo	Owl Creek Crossing (OCC)	3,351	33	110,576	
West OCC	East OCC	1,171	364 HRR-3	426,395	
East OCC	Landfill Road	913	5	4,567	
Highway 8	Trailwood St., Desloge	1,863	3.1 HRR-2	5,775	
Trailwood St., Desloge	Landfill Rd	1,230	3.1 HRR-2	3,812	
Owl Creek	HRR-12	7,399	15.5 HRR-12	114,681	
Highway 8	HRR-5	12,852	4.1 HRR-10	52,694	
HRR-5	HRR-4	8,228	2.8 HRR-5	23,038	
Brightwell Park	National water tower	600	1 HRR-6	600	
Shaft Fed #2	St. Francois River	27,927	0.4 HRR-8	11,171	
Junction MR & BT RR	St. Joe State Park entrance	5,592	0.4 HRR-8	2,237	
St. Francois River	Site boundary, south of town of Doe Run	12,451	2.4	29,883	
West: State Hwy B, Illinois Southern RR	East: State Hwy W, Illinois Southern RR	18,244	5.8 HRR-9	105,815	
St. Joe State Park tailings edge	Shaft Fed #10	15,702	7.9 HRR-13	124,063	
Junction with active RR, south Bonne Terre	Northern Site boundary	21,853	5.5 HRR-14	120,190	

Volumes shown are bank cubic yards. For bulk volumes, apply a swell factor of approximately 110% for a clean sand.

2.5 Ballast Sampling

At each transect a composite sample was collected using shovels to characterize the metal content of the ballast. Each composite was composed of four or five aliquots collected to represent the bulk of the ballast material, even if two (or more) distinct materials are identified in the ballast.

NEWFIELDS

DRAFT

January 29, 2007

For each sampling location a field sheet was constructed diagramming a plan and profile view of the railroad bed and the aliquot sampling locations (see Appendix B). The diagrams show the general configuration of the railroad and other hard features nearby used for locating the sampling area (roads, fences, etc.). Photographs taken during the sampling are also included in Appendix B.

The following information was recorded on the field sampling forms included in Appendix B:

- · GPS coordinates and description of sampling point
- · Names of sampling team members
- Volume of sample collected
- · Sampling methodology
- Plan and profile of transect
- · Date and time of sample collection
- Sample identification
- Grain size, slope, erosion, and plant cover
- Nature of organic layer, if present
- · Vertical and horizontal ballast measurements
- Photograph numbers and aspect
- · Evidence of recent use
- Field portable XRF assay of composite sample.

All samples were analyzed by EPA Method SW-846 6010B for cadmium, lead, and zinc at Evergreen Analytical Laboratory in Wheat Ridge, Colorado. Analytical results are show in Table 3. Copy of the laboratory report is provided in Appendix C.

Table 3 Cadmium, Lead, and Zinc Concentrations in Ballast Sample Composites

Location	Cadmium	Lead	Zinc	Ratio Zn/Cd
HRR-01	3.3	11000	130	39.4
HRR-02	31	13000	1400	45.2
HRR-03	23	5900	860	37.4
HRR-04	16	14000	880	55.0
HRR-05	120	6400	4500	37.5
HRR-06	13	8200	430	33.1
HRR-08	. 21	14000	710	33.8
HRR-09*	0.82	250	230	280.5
HRR-10	9.9	1800	330	33.3
HRR-11	1.7	9000	58	34.1
HRR-12	- 20	17000	680	34.0
HRR-12A*	25	11000	890	35.6
HRR-14	9.6	4200	340	35.4

Notes: * HRR-09 excluded from comparisons in Section 3.0 Summary. HRR-12A is a Duplicate of HRR-12.

DRAFT

January 29, 2007

One sample blind duplicate was collected at HRR-12. Quality control procedures listed in the St. Francois County QAPP (Dames & Moore 1997) were followed. Duplication of the lead concentrations in HRR-12 and HRR-12A indicates that the ballast lead concentrations are not homogeneous even in well-mixed samples. The so-called "nugget effect" was anticipated as it is almost always observed in duplicate or paired chat sample results.

3.0 SUMMARY

The volume of ballast in the verified historic railroad beds within the investigation area totaled 1,262,966 cubic yards. This is only a rough estimate since 16 volume measurements were made over a rail distance of 30.3 miles. By comparison, there are approximately 39.3 million cubic yards of chat and tailings in the six large piles in the County (RI Table 2-4, NewFields 2006a).

The measured lead concentration in most of the composite samples of chat ballast was at the high end of the range for chat in St. Francois County. Measured cadmium concentrations were quite variable but well within the range reported for St. Francois County. Zinc concentrations were low, comparable only to mill waste from the National, Bonne Terre and Federal piles. The observed zinc to cadmium ratio (Zn/Cd) of 33-55 compares well with the Zn/Cd range of 39-55 reported for mill waste from the six large piles in St. Francois County (RI Table 2-5, NewFields 2006a).

4.0 REFERENCES

- Akers, J. Clyde, 1938. A History of St. Francois County Railroads, published in Lead Belt News, June 10.
- Bratton, K. and Richard Turley, 1979. St. Joe State Park: The Economic, Social, and Physical Impact of Missouri's Second Largest State Park. Southeast Missouri Regional Planning and Economic Development Commission, March 1979.
- Buckley, E.R. 1908, Geology of the disseminated lead deposits of St. Francois and Washington Counties: Rolla, Missouri Division of Geology and Land Survey, v. IX, parts 1 and 2, 259 pages (includes plate XLVIII, Geologic Maps of the Flat River Leadwood Areas).
- Dames & Moore, 1997. Field Sampling Plan for Focused Remedial Investigation/Feasibility Study, St. François County, Missouri. November 19.
- Fluor Daniel, 1995. Initial Remedial Investigations for the Big River Mine Tailings Site, St. Francois County, Missouri.



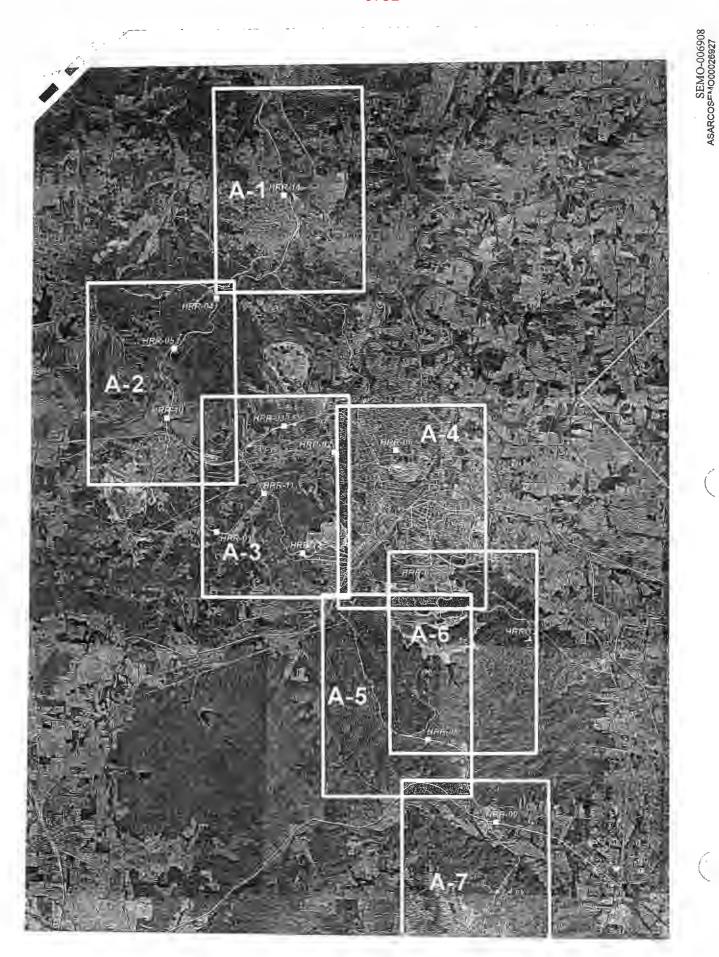
Case: 4:11-cv-00864-JAR Doc. #: 221-11 Filed: 07/16/14 Page: 14 of 44 PageID #: 6750

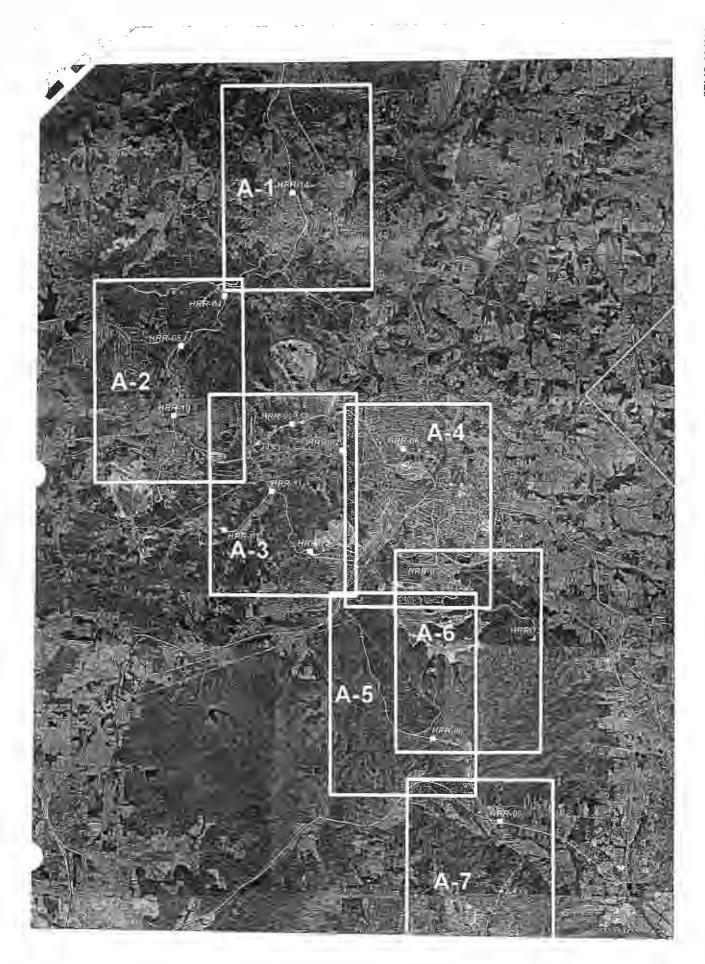
Historic Railroads St. Francois County Mined Areas

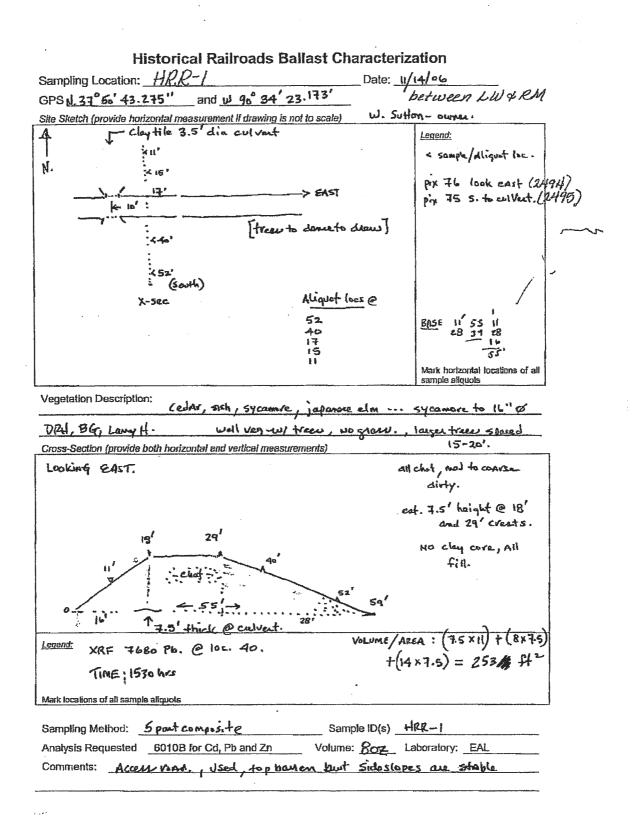
DRAFT

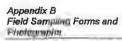
January 29, 2007

- MDOH, 1997. Big River Mine Tailings Superfund Site, Lead Exposure Study: Report to the Agency for Toxic Substances and Disease Registry. Draft Final Report, April 21.
- NewFields, 2006a. Focused Remedial Investigation for Mined Areas in St. Francois County, Missouri. March 3.
- NewFields, 2006b. Field Sampling For Historical Railroads, St. Francois County Mined Areas, Missouri. October 16.







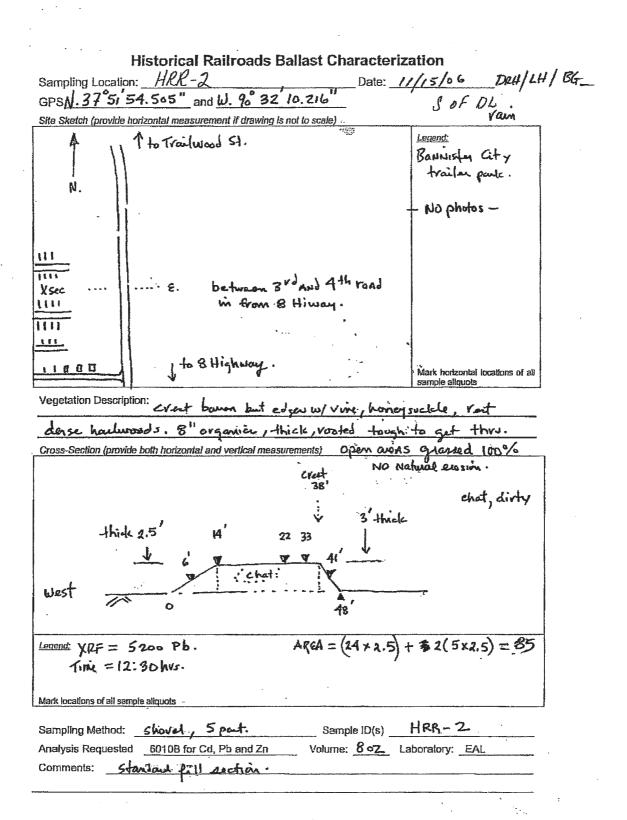


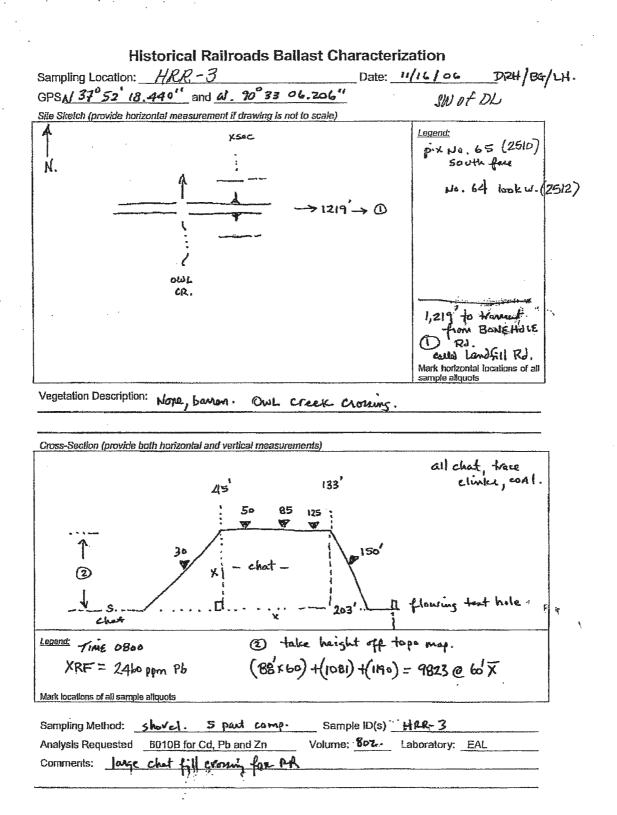


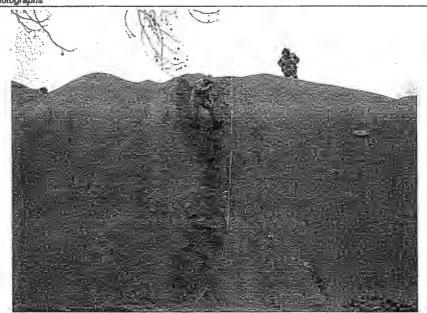
HRR-1, Looking east.



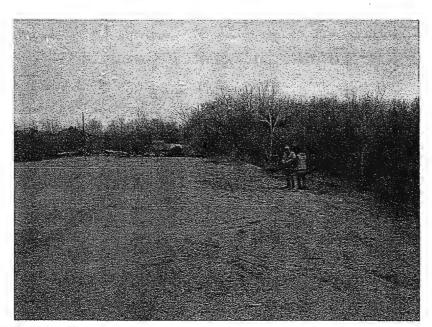
HRR-1, South to culvert.



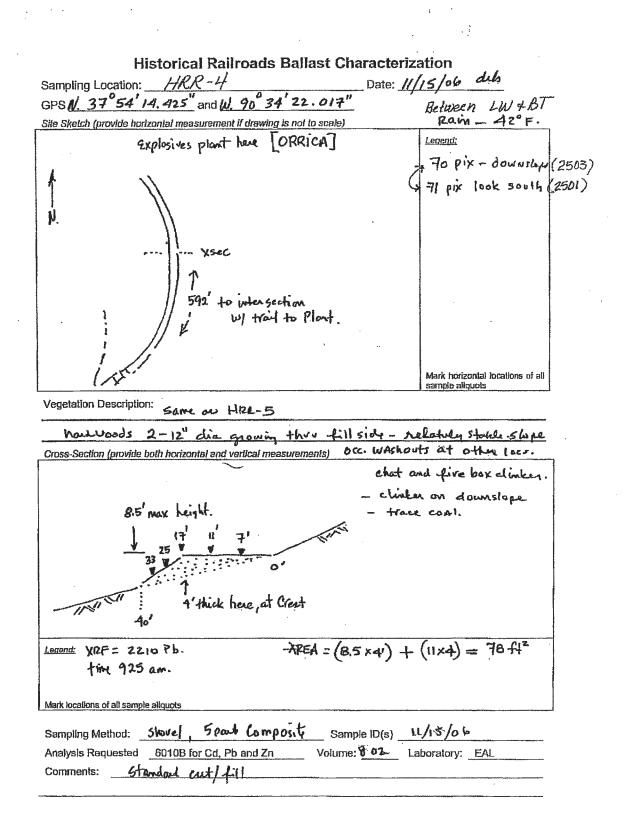




HRR-3, Picture 65. South face.



HRR-3, Picture 64. Looking west.





HRR-4, Looking south.



HRR-4, Downslope.

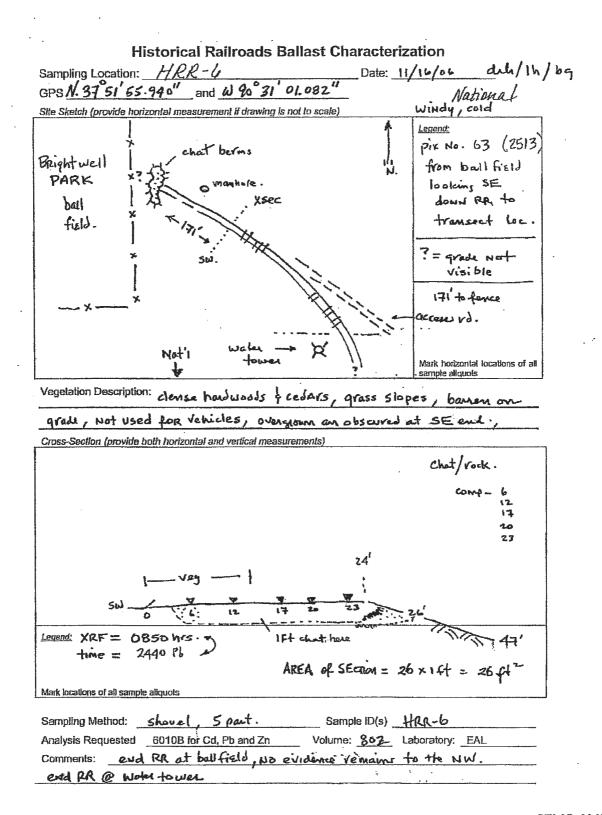
Historical Railroads Ballast Charact	
Sampling Location: HRR-5 Date	: 11/15/06 DRH/LH/13G-
GPSN. 37°53'29.064 and W. 90°35' 10.248"	Between LW+BT
Site Sketch (provide horizontal measurement if drawing is not to scale)	DOWNER 2
303' NE of point of switch back.	Legend: XSec loc.
A C	orig topa.
5a'	pix 73 NE along (2499)
limestype bedrock	pix 72 transat/ laborers. (2500)
·	Mark horizontal locations of all sample allquots
Vegetation Description: Scales I handwood 6, med-life descrip, o	cedavs
6" layer organics over chast on Bill side	
Cross-Section (provide both horizontal and vertical measurements)	
Aliquetr@ 3,12,17,24,40 dk grey f to c. chat, clinica, ce	oAl (trace). Orig sorface
depth to rock base	
@ 12 = 18"	- 4
@ 24 = 17"	12' 3'
? 50' Cill ille = est.	18" chat cover over
	bace of Ls from 0'- 50'
Legend: 5 part composite. time 0830 hor. ARE	A = 1.5'x50 = 75.A2
XRF Pb = 5220 ppm.	
Mark locations of all sample aliquots	7
Sampling Method: Shave Sample ID(s)) <u>HPR-5</u>
Analysis Requested 6010B for Cd, Pb and Zn Volume: 8*2	Laboratory: EAL
Comments: cut/fil Wansed-	



HRR-5, Northeast along railroad.



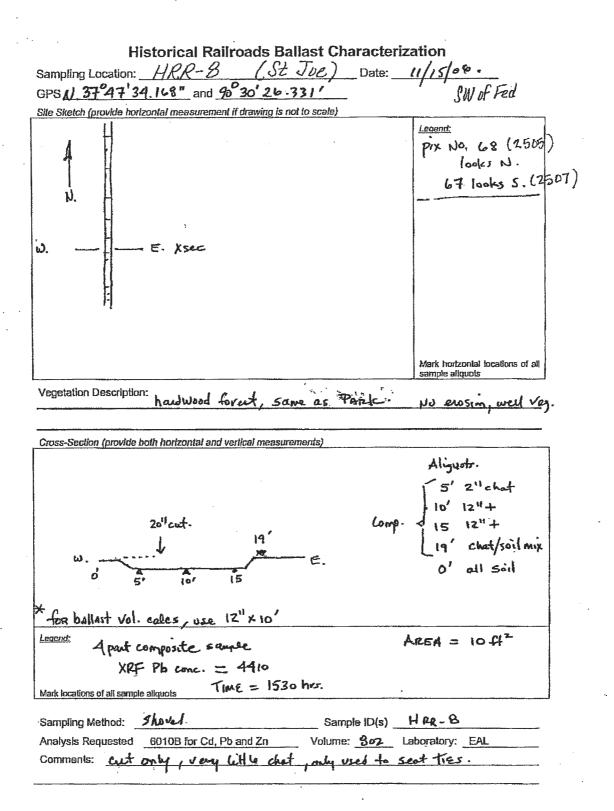
HRR-5, Looking southwest, transect in foreground.





HRR-6, From ball field looking southeast down railroad to transect location.

Hi	storical Railroads Ba <i>HRR-7 (St Jo</i>	llast Cha	racteriz	ation
		<u>L)</u>	Date	
GPS	and			Nof Fed
Site Sketch (provide hori	zontal measurement if drawing is n	ot to scale)		
	not find track ballast in branch below tails dam.		zu?	Lagend:
	•			
				Mark horizontal locations of all sample aliquots
Vegetation Description	ı:			
Cross-Section (provide t	oth horizontal and vertical measure	ements)		
1				
	•			
<u>Legend:</u>				-
Mark locations of all sample	aliquots			
Sampling Method:		Sample	∋ ID(s)	
Analysis Requested	6010B for Cd, Pb and Zn	Volume:	Li	aboratory: EAL
Comments:				



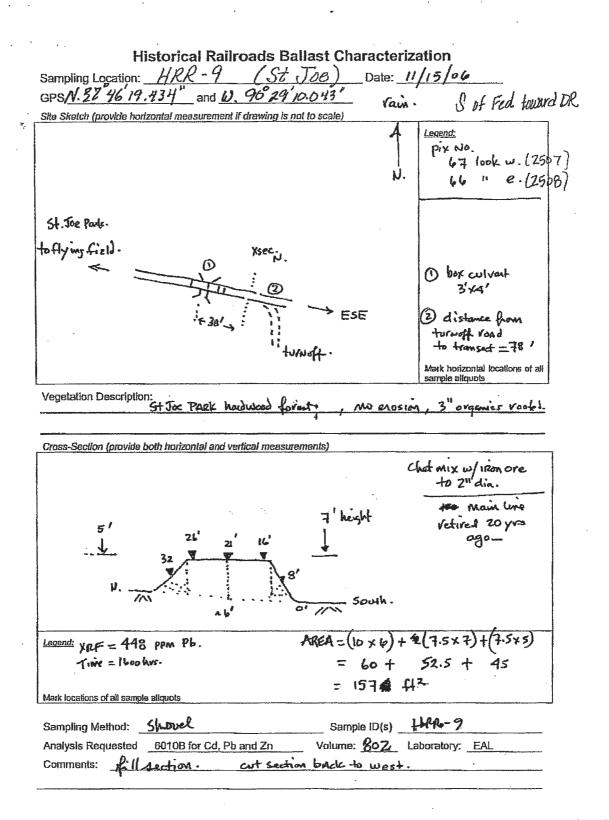
Appendix B
Field Sampling Forms and



HRR-8, Looking north.



HRR-8, Looking south.

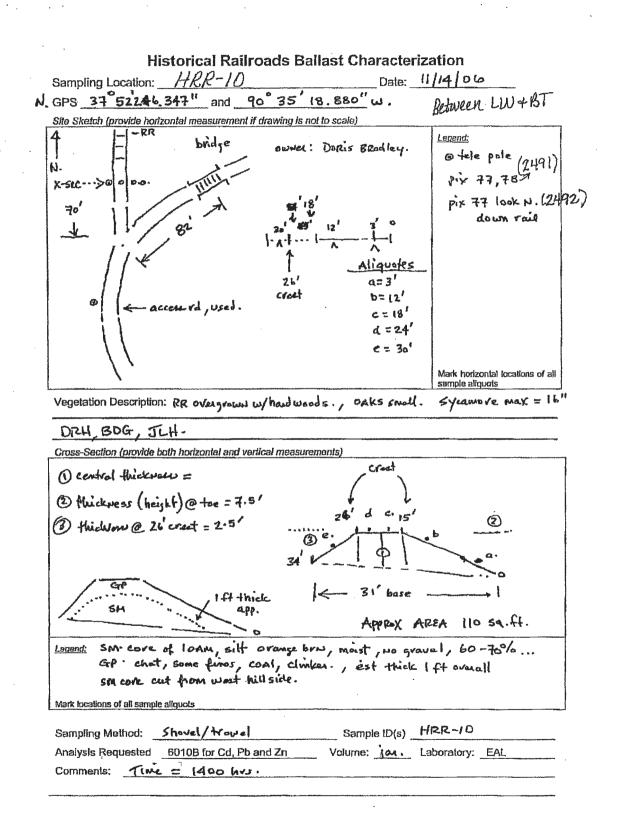




HRR-9, Looking west.



HRR-9, Looking east.

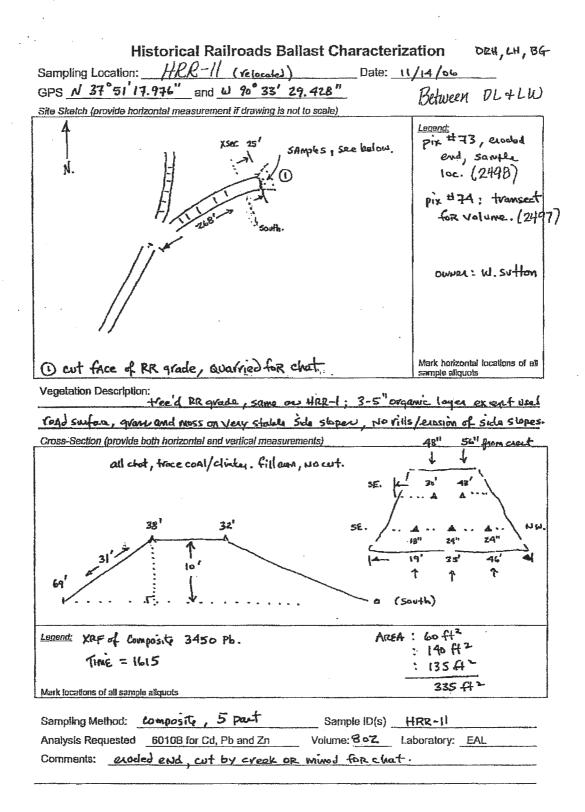




HRR-10, Looking north down rail.



HRR-10, Looking west.





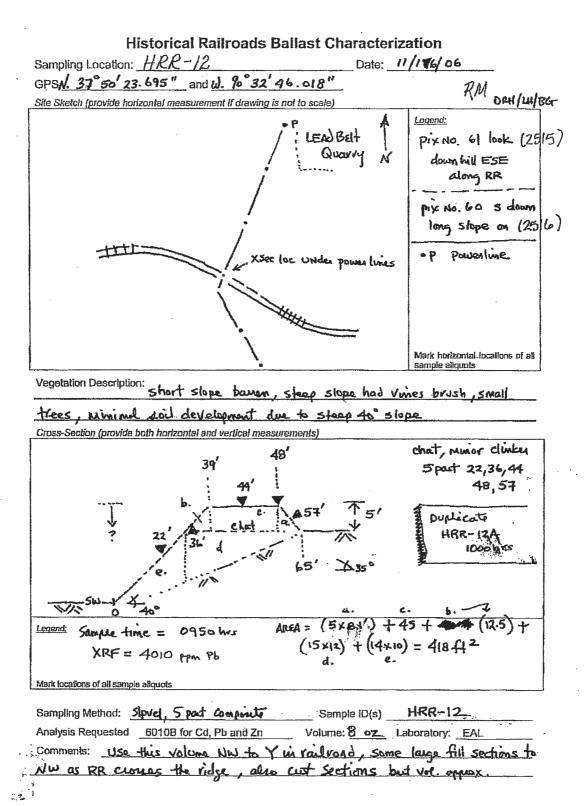
HRR-11, Eroded end, sample location.



HRR-11, Transect for volume.

projects SIFren ColAdd Nork RR_Rp(HRR report photos doc

NEWFIELDS



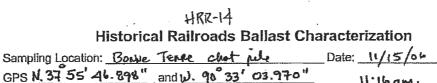


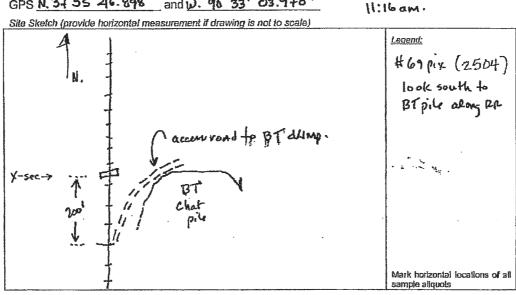
HRR-12, Looking downhill east southeast along railroad.



HRR-12, South down long slope on transect

Historical Railroads Ballast Characteriza	
Sampling Location: HRR-13 (St-Joe) Date: 11,	
GPS 37 48 56.814" and 90. 28 42.433"W.	E of Fed
Site Sketch (provide horizontal measurement if drawling is not to scale)	
paved bile trail in St. Joc PANC -	ky LAVry Hopkins 12/13/06 no pix
$a \qquad b = \sqrt{(c+a)(c-a)}$	Mark horizontal localions of all sample aliquots
Vegetation Description:	
Cross-Section (provide both horizontal and vertical measurements)	W. 1
€ 13' →	Ē
23' 34'	S' 51'
Legend: Volume = XSec. Avo. $A = (13' \times 7') + 76.7 + 46.4 = 214 \div 2$ Mark locations of all sample aliquois	7 = 7.9 cy.
Sample ID(s) N	
Analysis Requested 6010B for Cd, Pb and Zn Volume: 15 La	boratory: EAL
Comments:	





Vegetation Description: long slope w/ vinew, bush well - roaded that top is traveled road (barrow) Cross-Section (provide both horizontal and vertical measurements) 5 part Compost 46 - soil 371 - climber, con 21'- w/clinkar - same Approx. AREA 14 412 84 ft ~ Kime Ilibam. 52 ft 7 XF = 3480 150 Af Mark locations of all sample aliquots Sample ID(s) White HRR-14 Williams showed - 5 part Sampling Method:

Volume: NA. Laboratory: EAL

Analysis Requested 6010B for Cd, Pb and Zn

Section only

Comments:



HRR-14, Looking south to Bonne Terre pile along railroad.





Figure A-7 Doe Run Area